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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,259	02/25/2002	Igor Alexeff	20040	2015	
20551 75	590 06/27/2003				
	RTH WESTERN		EXAM		
P.O. BOX 1219			LEE, BENNY		
SANDY, UT	84070		ART UNIT	PAPER NUMBER	
			2817		
			DATE MAILED: 06/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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This is a communication from the examiner in charge of your application.

COMMISSIONER OF PATENTS AND TRADEMARKS

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ďπ	his a	pplication has been examined Responsive to communication filed on	This action is made final.
A sho Failui	rtene re, to	d statutory period for response to this action is set to expire Mer (3),	
Part I 1. 3. 5.	Ø	THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION: Notice of References Cited by Examiner, PTO-892. Notice of Art Cited by Applicant, PTO-1449 Information on How to Effect Drawing Changes, PTO-1474 Company of the Patent Drawing Changes, PTO-1474 Company of the Patent Drawing Changes, PTO-1474	g, PTO-948. t Application, Form PTO-152
Part II		SUMMARY OF ACTION	.•
1.	ø	Claims	are pending in the application.
		Of the above, claims	are withdrawn from consideration.
2.		Claims	_ have been cancelled.
3.:	Ċ	Claims	_ are allowed.
4.	凶	Claims 1-3,7-13,14-21,23-26, 28-32, 33-40	are rejected.
. <u>.</u>	/ Ø	Claims 4-6; 22, 27	are objected to.
6.	/		restriction or election requirement.
7.		This application has been filed with informal drawings which are acceptable for examination purpose	es until such time as allowable subject
ï.		matter is indicated. Allowable subject matter having been indicated, formal drawings are required in response to this Off	ice action.
9.	_	The corrected or substitute drawings have been received on These draw not acceptable (see explanation).	rings are. 🔲 acceptable;
10.		The proposed drawing correction and/or the proposed additional or substitute sheet(s) of drawing chas (have) been approved by the examiner. disapproved by the examiner (see explanation).	
11.		The proposed drawing correction, filled, has been approved, di the Patent and Trademark Office no longer makes drawing changes. It is now applicant's responsible corrected. Corrections MUST be effected in accordance with the instructions set forth on the attack EFFECT DRAWING CHANGES", PTO-1474.	lity to ensure that the drawings are
12		Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has	been received not been received
		been filed in parent application, serial no; filed on;	
13.		Since this application appears to be in condition for allowance except for formal matters, prosecution accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	n as to the merits is closed in
14.		Other	

PTOL-326 (Rev. 7 - 82)

EXAMINER'S ACTION

SN 84259

Application/Control Number: 10/084,259

Art Unit: 2817

The disclosure is objected to because of the following informalities: Page 8, paragraph 0015; page 13, paragraph 0026; page 14, paragraph 0028; paragraph 0042: at all appropriate occurrences, --signal-- should be inserted between "electromagnetic" and "frequency". Page 8, paragraph 0015 and page 14, paragraph 0028, note that "through 28, 30" and "28, 30 through" should be respectively rephrased as --28, 30 to pass through filter 12-- for a proper characterization. Page 8, paragraphs 0015 and 0016, note that updated status information for the cited related serial numbers should be provided, where available. Page 12, 13 paragraph 0024, note that use of the term "item" should be rephrased for clarity. Page 12, paragraph 0024, note that it is unclear whether "in region C, no electromagnetic wave absorption is register" is a proper characterization, especially in view of Fig. 1 which depicts wave (30), corresponding to region C, passing through the plasma to be received by antenna (14). Clarification is needed. Note that in the fig. 4 description, reference labels (20, 34, 36, 38, 40) need to be explicitly described relative to Fig. 4.

Appropriate correction is required.

The drawings are objected to because of the following: In fig. 4, reference label --12-needs to be provided as per the Fig. 4 description; In Fig. 5, reference labels --82-- and --84-need to be provided as per the Fig. 5 description. A proposed drawing correction or corrected
drawings are required in reply to the Office action to avoid abandonment of the application. The
objection to the drawings will not be held in abeyance.

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Claim 9 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification fails to characterize what constitutes "combinations thereof" to the degree necessary such that one skilled in the art would not be able to form such "combination" without undue experimentation.

The following claims have been found objectionable for reasons set forth below:

In claims 1, 14, 15, 16, 17, 33-39, at all appropriate occurrences therein, note that -- signal-- should be inserted between "electromagnetic" and "frequency" for a proper characterization.

In claim 33, line 4, note that --signal-- should be inserted between "electromagnetic" and "frequencies" for clarity.

In claims 36, 37, note that "frequency" should correctly be --frequencies-- as to be consistent with the recited "range".

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 7-13; 14-21, 23-26, 28, 29; 33-40 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by either Kaufman et al reference (i.e. '531 or '034).

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Note that either Kaufman et al reference discloses an electromagnetic wave filter comprising a "power medium" defined by an elongated dielectric walled tube or chamber (i.e. 10 in '531; 22 in '034) having a gas composition (e.g. mercury vapor) therein. An energy source including electrodes and a voltage source (i.e. col. 5, ls. 11-16 in '531; (26, 24, 28) in '034) to ionize the gas composition into a plasma column within the tube. Moreover, the plasma density can be varied by a control mechanism or regulator (i.e. col. 6, ls. 7-12 in '034; col. 7, ls 18-22 in '531) to adjust discharge energy (i.e. current) in the plasma and hence the operating range of the filter. As described in conjunction with Figs. 2 and 3 of either reference, the plasma tube is operative as a plasma antenna for receiving a continuous electromagnetic wave (48 in '034; 28 in '531) impinging on the plasma antenna from a remote source (i.e. 12 in '034; 44 in '531). As is evident from the frequency response curve in Fig. 3 of either reference, certain undesired frequencies (arbitrarily designated as either first or second frequencies) impinging on the plasma column will not be absorbed by the plasma column and will be reflected therefrom (i.e. out of band frequencies filtered out) while certain other desired frequencies (i.e. arbitrarily designated as either second or first frequencies) will be absorbed or passed by the plasma column (i.e. in band signals) and coupled to a probe (22 in '531; 42 in '034).

Claims 30-32 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kaufman et al ('531).

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As is evident from figs. 9, 10 of Kaufman ('531), note that a plurality of plasma tubes (110a, 110b, 110c, etc) are arranged to function as a plural plasma antenna array. Each plasma tube operates in the same manner as the embodiment with a single plasma tube.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 308-4902.

BENNY T. LEÉ PRIMARY EXAMINER ART UNIT 2817

Lee/ek

06/19/03